



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090526

Mode: Highway

Status: Submitted

US-401

From/Cross Street: Purser Drive

Specific Improvement Type: 4 - Upgrade Arterial to Superstreet

To: Legend Road

Project Category: Regional Impact

Length: 0.98

TIP#: U-5302

Fully Funded in Draft STIP? No

Cost to NCDOT: \$2,950,000

Description:

Upgrade Roadway to Superstreet

Division(s): Division 5

County(s): WAKE

MPOS(s)/RPO(s): Capital Area MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 62.86

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 79.47 [Travel Time] Benefit/Cost (25%) 50.50 Congestion (V/C) (25%) 73.36 Accessibility / Connectivity (10%) 100.00	Percent: 15% Points: 47	Percent: 15% Points: 46
Totals: Weight: 70% Weighted Score: 48.91		

Division Needs Total Score: 32.72

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 79.47 [Travel Time] Benefit/Cost (20%) 50.50 Congestion (V/C) (20%) 73.36	Percent: 25% Points: 0	Percent: 25% Points: 0
Totals: Weight: 50% Weighted Score: 32.72		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	0.98
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	3
Roadway has Curb & Gutter?	No
Volume (AADT):	31996.63
Capacity:	31700.29
Volume/Capacity Ratio:	1.01
% Autos:	95%
% Trucks:	5%
Truck Volume:	1543.03
Crash Density:	99.8
Crash Severity:	38.84
Critical Crash Rate:	99.8
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	33
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	70
Actual Congested Speed:	32.66
Travel Time Index:	1.28

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	45
Length (miles):	0.98
Facility Type:	Superstreet
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	6637731.82
Travel Time Savings for 30 Years (Autos):	6317627.77
Travel Time Savings for 30 Years (Trucks):	320104.05
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	47	0
	0%	0	0
	0%	0	0
TOTAL Division Points		47	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	46	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		46	0

Project Cost and Source

Construction Cost:	\$2,100,000	TIP Unit
Right-of-Way Cost:	\$850,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$2,950,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$2,950,000	